

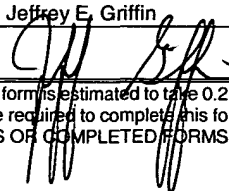
Please type a plus sign (+) in this box → +

PTO/SB/05 (4-98)

Approved for use through 9/30/2000. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53 (b))</small>		Attorney Docket No.: 101.0060 US CON First Named Inventor or Application Identifier: BROWN, G Title: Method and Apparatus for Determining Flow Rates Express Mail Label No.: EV 337 085 515 US	
APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>		ADDRESS TO: Box Patent Application Assistant Commissioner for Patents Washington, D.C. 20231	
<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and duplicate for fee processing)</small></p> <p>2. <input checked="" type="checkbox"/> Specification <small>[Total Pages: 24]</small> - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed-sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Descriptions of the Drawings <small>(if filed)</small> - Detailed Description - Claim(s) - Abstract of the Disclosure</p> <p>3. <input checked="" type="checkbox"/> Drawings (35 U.S.C. 113) <small>[Total Sheets: 2]</small></p> <p>4. Oath or Declaration <small>[Total Pages: 2]</small> a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from prior application (37 CFR 1.63 (d)) <small>(for continuation/divisional with Box 16 completed)</small> i <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p><small>*NOTE FOR ITEMS 1&13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 c.f.r. 1.28).</small></p>		<p>5. <input type="checkbox"/> Microfiche Computer Program <small>(Appendix)</small></p> <p>6. <input type="checkbox"/> Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small> a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy c. <input type="checkbox"/> Statement verifying identity of above copies</p> <p style="text-align: center;">ACCOMPANYING APPLICATION PARTS</p> <p>7. <input type="checkbox"/> Assignment papers (cover sheet & document(s))</p> <p>8. <input type="checkbox"/> 37 C.F.R. 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small></p> <p>9. <input type="checkbox"/> English Translation Document <small>(if applicable)</small></p> <p>10. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/Form 1449 Citations</p> <p>11. <input type="checkbox"/> Preliminary Amendment</p> <p>12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small></p> <p>13. <input type="checkbox"/> *Small Entity <input type="checkbox"/> Statement filed in prior application, Statement(s) Status is still proper and desired <small>(PTO/SB/09-12)</small></p> <p>14. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small></p> <p>15. <input type="checkbox"/> Other: _____</p>	
<p>16. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <u>10/030,506</u> Prior application information: Examiner: <u>MCELHENY, JR</u> Group/Art Unit: <u>2857</u> <u>For CONTINUATION or DIVISIONAL APPS only:</u> The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.</p>			
17. CORRESPONDENCE ADDRESS			
<input type="checkbox"/> Customer Number or Bar Code Label		(Insert customer No. or Attach bar code label here)	
<input checked="" type="checkbox"/> Correspondence address below			
NAME		Schlumberger Technology Corporation, Schlumberger Reservoir Completions	
ADDRESS		14910 Airline Road P.O. Box 1590	
CITY	Rosharon	STATE	Texas
ZIP CODE	77583-1590	TELEPHONE	(281) 285-5720
COUNTRY	U.S.	FAX	(281) 285-5537
Name (Print/Type)	Jeffrey E. Griffin	Registration No. (Attorney/Agent):	36,534
Signature			Date: 7/17/03

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

21909 U.S. PTO
10/621899
07/17/03

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

FEE TRANSMITTAL				<i>Complete if Known</i>																																																																																																																																																																																							
For FY 2003																																																																																																																																																																																											
Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.																																																																																																																																																																																											
TOTAL AMOUNT OF PAYMENT		\$1122		Application Number																																																																																																																																																																																							
				Filing Date		July 17, 2003																																																																																																																																																																																					
				First Named Inventor		BROWN																																																																																																																																																																																					
				Group Art Unit																																																																																																																																																																																							
				Examiner Name																																																																																																																																																																																							
				Attorney Docket Number		101.0060 US CON																																																																																																																																																																																					
METHOD OF PAYMENT (Check one)				FEE CALCULATION (continued)																																																																																																																																																																																							
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 50-2475 Deposit Account Name: SENSOR HIGHWAY LIMITED <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17				3. ADDITIONAL FEES <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for response within first month</td><td></td></tr> <tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for response within second month</td><td></td></tr> <tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for response within third month</td><td></td></tr> <tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for response within fourth month</td><td></td></tr> <tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for response within fifth month</td><td></td></tr> <tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>260</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee</td><td></td></tr> <tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petition to Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>760</td><td>246</td><td>380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>760</td><td>249</td><td>380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td colspan="5">Other fee (specify)</td><td></td></tr> <tr><td colspan="5">Other fee (specify)</td><td></td></tr> <tr> <td colspan="5" style="text-align: right;">SUBTOTAL(3)</td> <td style="border: 1px solid black; text-align: center;">\$0</td> </tr> </tbody> </table>				Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1840*	113	1840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for response within first month		116	380	216	190	Extension for response within second month		117	870	217	435	Extension for response within third month		118	1,360	218	680	Extension for response within fourth month		128	1,850	228	925	Extension for response within fifth month		119	300	219	150	Notice of Appeal		120	300	220	150	Filing a brief in support of an appeal		121	260	221	130	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive unavoidably abandoned application		141	1,210	241	605	Petition to revive unintentionally abandoned application		142	1,210	242	605	Utility issue fee		143	430	243	215	Design issue fee		144	580	244	290	Plant issue fee		122	130	122	130	Petition to Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment property (times number of properties)		146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))		149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify)						Other fee (specify)						SUBTOTAL(3)					\$0
Large Entity Fee Code	Entity Fee (\$)	Small Entity Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																						
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																							
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																							
139	130	139	130	Non-English specification																																																																																																																																																																																							
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																							
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																							
113	1840*	113	1840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																							
115	110	215	55	Extension for response within first month																																																																																																																																																																																							
116	380	216	190	Extension for response within second month																																																																																																																																																																																							
117	870	217	435	Extension for response within third month																																																																																																																																																																																							
118	1,360	218	680	Extension for response within fourth month																																																																																																																																																																																							
128	1,850	228	925	Extension for response within fifth month																																																																																																																																																																																							
119	300	219	150	Notice of Appeal																																																																																																																																																																																							
120	300	220	150	Filing a brief in support of an appeal																																																																																																																																																																																							
121	260	221	130	Request for oral hearing																																																																																																																																																																																							
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																							
140	110	240	55	Petition to revive unavoidably abandoned application																																																																																																																																																																																							
141	1,210	241	605	Petition to revive unintentionally abandoned application																																																																																																																																																																																							
142	1,210	242	605	Utility issue fee																																																																																																																																																																																							
143	430	243	215	Design issue fee																																																																																																																																																																																							
144	580	244	290	Plant issue fee																																																																																																																																																																																							
122	130	122	130	Petition to Commissioner																																																																																																																																																																																							
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																							
126	240	126	240	Submission of Information Disclosure Stmt																																																																																																																																																																																							
581	40	581	40	Recording each patent assignment property (times number of properties)																																																																																																																																																																																							
146	760	246	380	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																							
149	760	249	380	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																							
Other fee (specify)																																																																																																																																																																																											
Other fee (specify)																																																																																																																																																																																											
SUBTOTAL(3)					\$0																																																																																																																																																																																						
2. CLAIMS Total Claims: 36 -20 = 16 Extra Independent Claims: 4 -3 = 1 Multiple Dependent Claims: 				<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>\$18.00</td><td>\$288</td></tr> <tr><td>\$84.00</td><td>\$84</td></tr> <tr><td></td><td></td></tr> </tbody> </table>				Fee from below	Fee Paid	\$18.00	\$288	\$84.00	\$84																																																																																																																																																																														
Fee from below	Fee Paid																																																																																																																																																																																										
\$18.00	\$288																																																																																																																																																																																										
\$84.00	\$84																																																																																																																																																																																										
1. BASIC FILING FEE <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>201</td><td>Utility filing fee</td><td>\$750</td></tr> <tr><td>106</td><td>206</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>207</td><td>Plant Filing fee</td><td></td></tr> <tr><td>108</td><td>208</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>214</td><td>Provisional filing fee</td><td></td></tr> <tr> <td colspan="3" style="text-align: right;">SUBTOTAL (1)</td> <td style="border: 1px solid black; text-align: center;">\$750</td> </tr> </tbody> </table>				Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	101	201	Utility filing fee	\$750	106	206	Design filing fee		107	207	Plant Filing fee		108	208	Reissue filing fee		114	214	Provisional filing fee		SUBTOTAL (1)			\$750	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Large Entity Fee Code</th> <th>Small Entity Fee Code</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>203</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>202</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>204</td><td>Multiple dependent claims</td><td></td></tr> <tr><td>109</td><td>209</td><td>**Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>210</td><td>**Reissue claim in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="3" style="text-align: right;">SUBTOTAL(2)</td> <td style="border: 1px solid black; text-align: center;">\$372</td> </tr> </tbody> </table>				Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid	103	203	Claims in excess of 20		102	202	Independent claims in excess of 3		104	204	Multiple dependent claims		109	209	**Reissue independent claims over original patent		110	210	**Reissue claim in excess of 20 and over original patent		SUBTOTAL(2)			\$372																																																																																																																												
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																								
101	201	Utility filing fee	\$750																																																																																																																																																																																								
106	206	Design filing fee																																																																																																																																																																																									
107	207	Plant Filing fee																																																																																																																																																																																									
108	208	Reissue filing fee																																																																																																																																																																																									
114	214	Provisional filing fee																																																																																																																																																																																									
SUBTOTAL (1)			\$750																																																																																																																																																																																								
Large Entity Fee Code	Small Entity Fee Code	Fee Description	Fee Paid																																																																																																																																																																																								
103	203	Claims in excess of 20																																																																																																																																																																																									
102	202	Independent claims in excess of 3																																																																																																																																																																																									
104	204	Multiple dependent claims																																																																																																																																																																																									
109	209	**Reissue independent claims over original patent																																																																																																																																																																																									
110	210	**Reissue claim in excess of 20 and over original patent																																																																																																																																																																																									
SUBTOTAL(2)			\$372																																																																																																																																																																																								
SUBMITTED BY Typed or Printed Name: Jeffrey E. Griffin Signature: 				Complete (if applicable) Reg. Number: 36,534 Deposit Account User ID: 7/17/03																																																																																																																																																																																							

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brown, G.

Attorney Docket No.: 101.0060CON

Serial No.:

Art Unit:

Filed Herewith: July 17, 2003

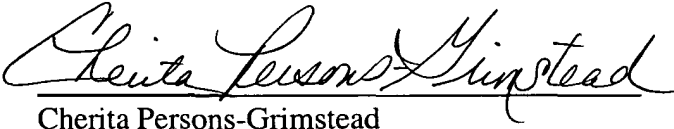
Examiner:

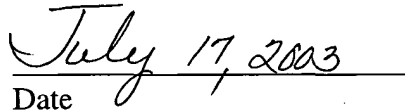
For: Method and Apparatus for Determining Flow Rates

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that these specifications are being deposited with the United States Postal Service as Express Mail No. EV 337 085 515 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brown, G.

Attorney Docket No.: 101.0060CON

Serial No.:

Art Unit:

Filed Herewith: July 17, 2003

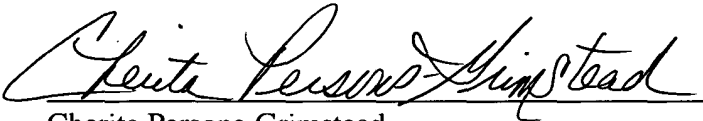
Examiner:

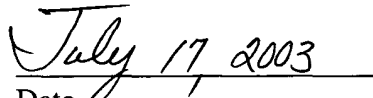
For: Method and Apparatus for Determining Flow Rates

Mail Stop PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that these drawings are being deposited with the United States Postal Service
as Express Mail No. EV 337 085 515 US in an envelope addressed to: Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Brown, G.

Attorney Docket No.: 101.0060CON

Serial No.:

Art Unit:

Filed Herewith: July 17, 2003

Examiner:

For: Method and Apparatus for Determining Flow Rates

Mail Stop PATENT APPLICATION

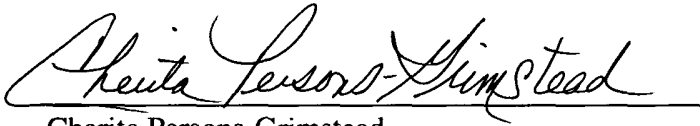
Commissioner for Patents

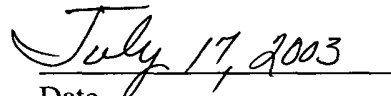
P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that this Fee Calculation Sheet (in duplicate) is being deposited with the United States Postal Service as Express Mail No. EV 337 085 515 US in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Cherita Persons-Grimstead


Date

Cherita Persons-Grimstead
Schlumberger Technology Corporation
14910 Airline Road
Rosharon, Texas 77583-1590
Telephone: (281) 285-5104